BOSS CE-2/CE-2B

SERVICE NOTES *First Edition*

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

A B C D E F G H I J K L M N O P Q R S T U

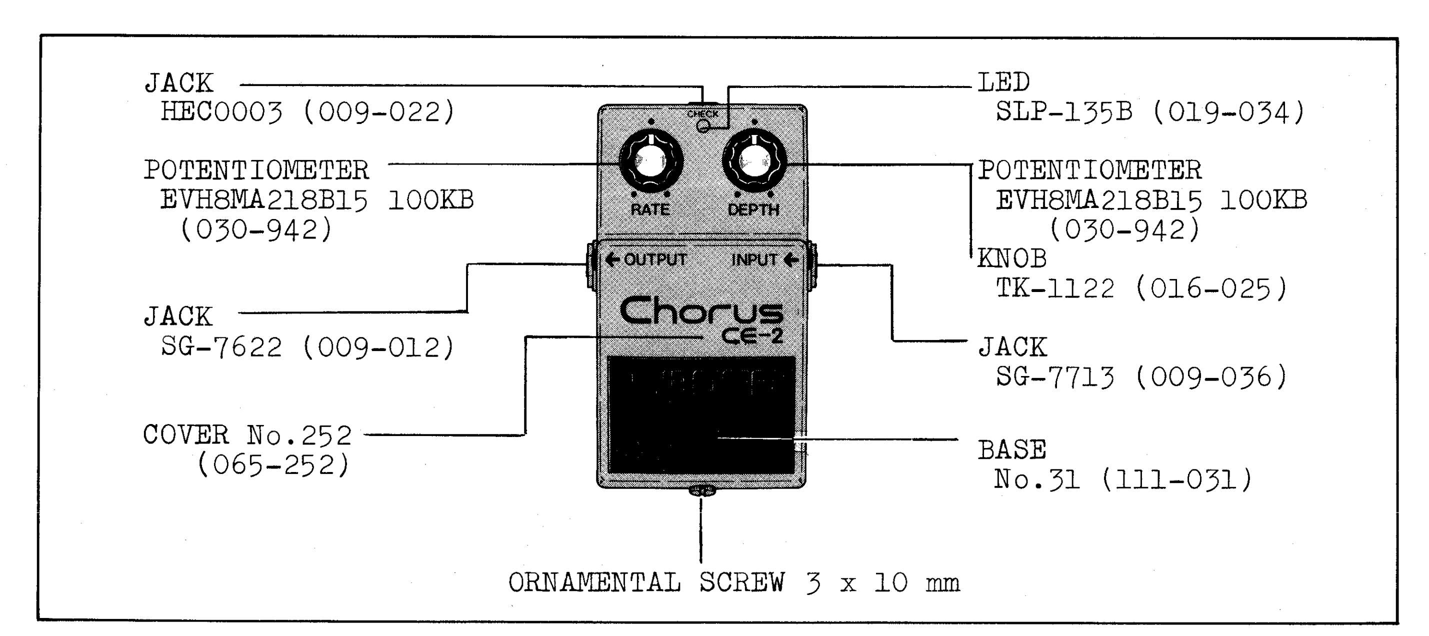
CE-2

※This notes includes the contents of the CE-2 First Edition and makes it obsolate.
※CE-2のサービスノート第一版は廃版とし本サービスノートに併合します。

SPECIFICATIONS

Power	Battery 9V (1), AC Adaptor
Current requirements	DC9V, 9mA
Control	Rate, Depth
Others	Normal/Effect Changeover Switch, Effect Indicator (also for confirmation of Battery Check)
Jack	Input, Output, AC Adaptor
S/N	90dB or more (IHF-A)
Maximum allowable input	0dBm (100Hz), −10dBm (1kHz)
Input impedance	470kΩ
Output load impedance	Over 10kΩ
Dimensions	70(W) x 55(H) x 125(D)mm (2.8" x 2.2" x 4.9")
Weight	400g (0.88lbs.)

BATTERY STRAP
SPRING BASE
COIL SPRING NO.59 (070-059)
PEDAL GUIDE BUSHING (068-026)
CASE NO. 45 (066-045)
COVER NO.130 (065-130)
BASE NO.32 (111-032)
BOTTOM NOT SHOWN



PARTS LIST

066-045	Case no.45 (light blue)
065-252	Cover no.252 (light blue)
065-130	Cover no.130 bottom
111-031	Base no.31 pedal matt
111-032	Base no.32 bottom
068-026	Guide bushing no.26
064-151	Holder no.151 washer LED
107-053	Cushion no.53 PCB
065-153	Cover no.153 PCB
070-059	Spring no.59 coil
016-025	Knob no.25 TK-1122
030-942	Pot. EVH8MA218B15 100KB
001-295	Switch J-M0404
151-050B	PCB assy ET-50B
052-516B	PCB ET-50B less parts

SEMICONDUCTOR

017-110	2SC945-P	transistor
017-104	2SC732TM-GR	transistor
017-014	2SK30A-Y	FET
018-014	1S2473	Diode
018-075	RD5.1EB	zener
018-039	RD11EB	zener
019-034	SLP-135B	LED
020-097	μPC4558C	IC
020-164	TL022CP	IC
020-213	MN3007	BBD
020-224	MN3101	BBD driver
009-022	Jack	HEC-0003 adaptor
009-012	Jack	SG-7622
009-036	Jack	SG-7713

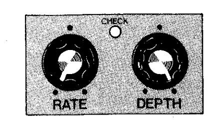
Roland

Printed in Japan BG-2

ET-50B (151-050B) (PCB 052-516B)

CE-2 052-516B

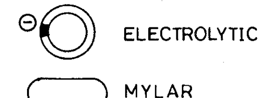
ADJUSTMENT



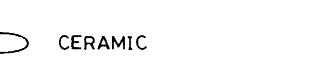
Set controls as shown left.
Feed a signal 200Hz, + 3dBm, sine into INPUT Jack.
Connect an oscilloscope to Q3 emitter.
Determine the BBD bias by turning VR-3 to provide a centered operating-point.

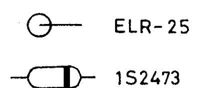
D1-D5,D8:	1S2473 or 1S1588
D6	RD5.1EB
D7	RD11EB
IC1	μPC4558C
IC2	TL022CP
IC3	MN3007(1024-stage)
IC4	MN3101(BBD driver)

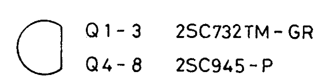
Q9 2SK30A-Y

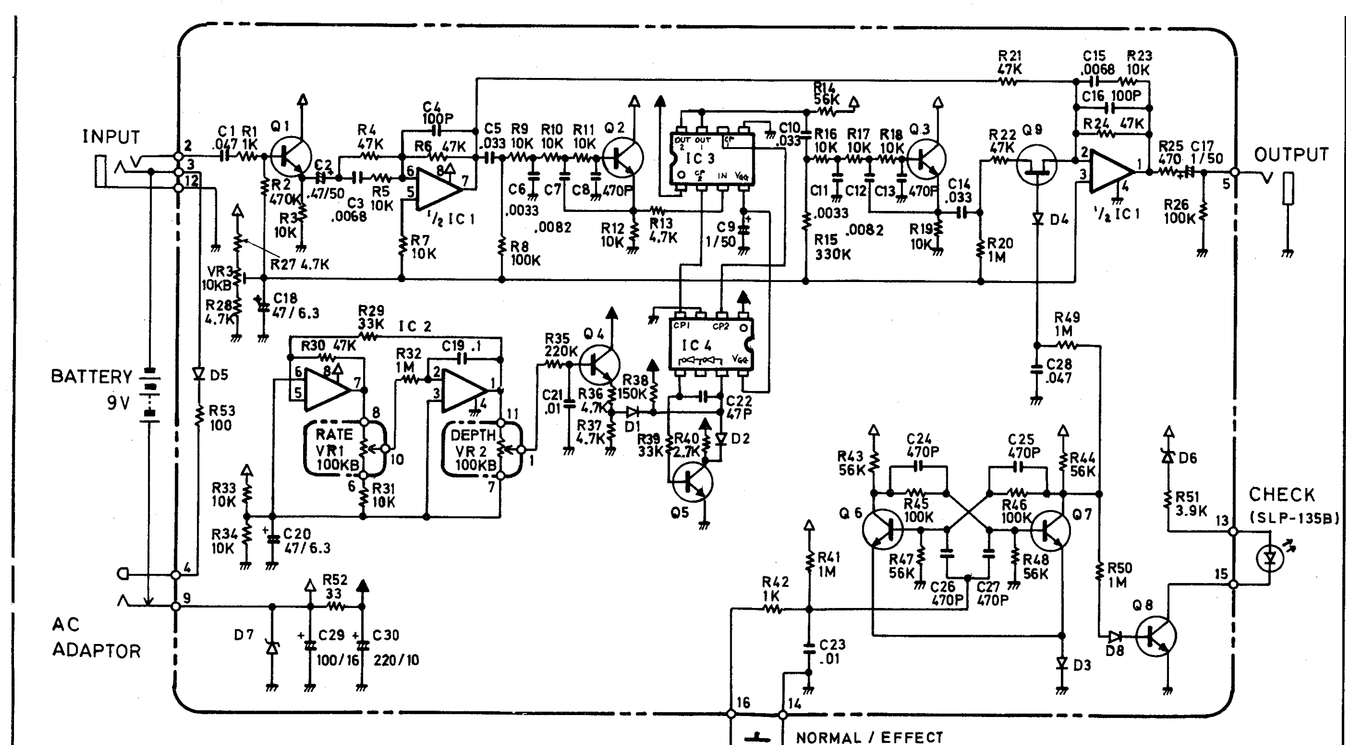


MYLAR





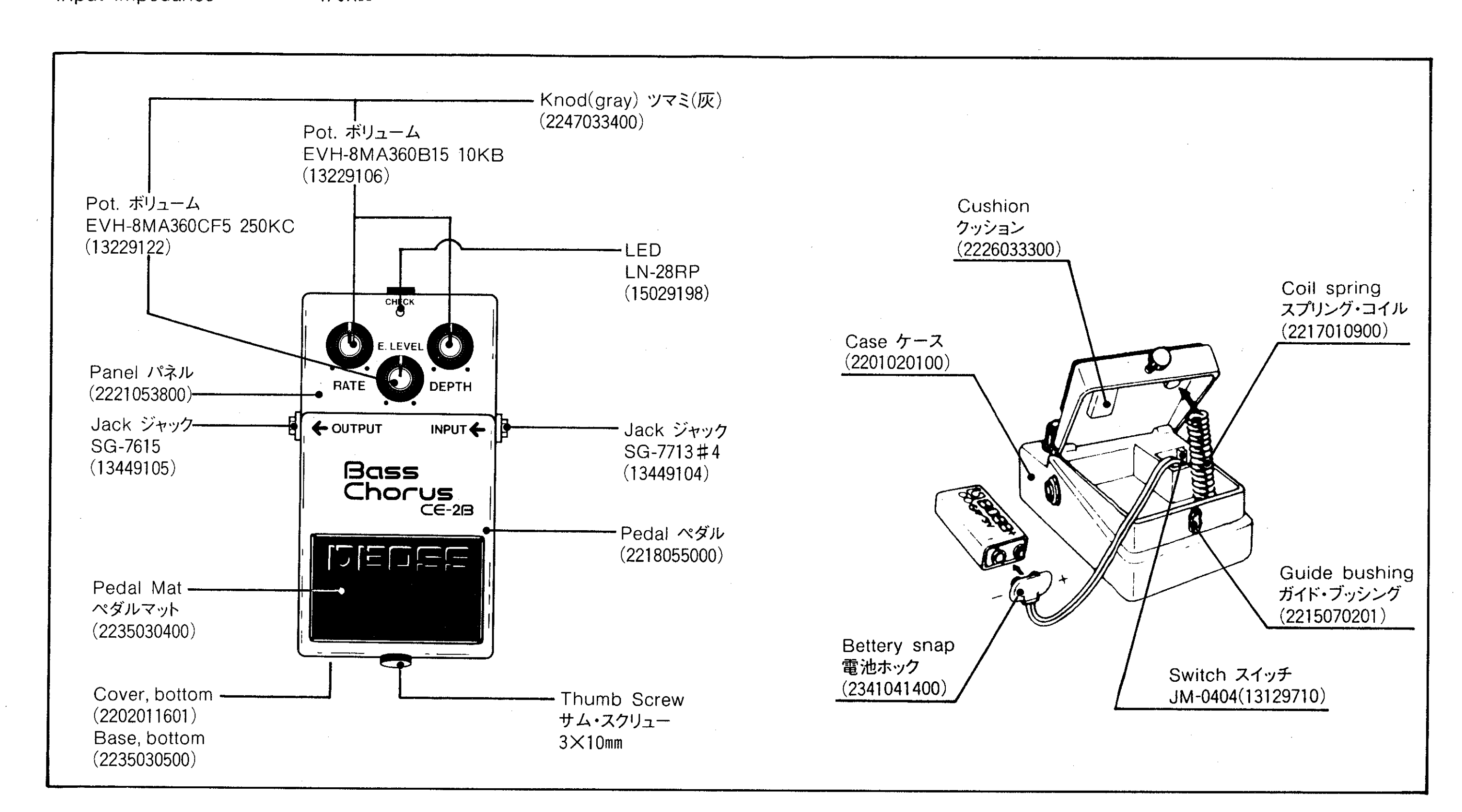




CE-2B

SPECIFICATIONS

Power Source··················9V Battery×1 or AC adaptor(BOSS ACA Series)
Current Draw····················10mA@9V
Residual Noise·················Less than −100dBm(IHF-A)
Maximum Input Level·······0dBm(100Hz)
Input Impedance···············470kΩ
Output Load Impedance····More than 10kΩ
Dimensions·······················70(W)×55(H)×125(D)mm
2-3/4(W)×2-1/4(H)×5(D)in.
Weight·····························400g/14oz



PARTS LIST

CASING

2201020100	Case	
2221053800	Panel	
2202011601	Cover	
2235030500	Base	
2218055000	Pedal	
2235030400	Pedal Mat	

KNOB

2247033400		grey

PCB ASSY

7523851000	MT Board	(pcb 2292044000)
----------	LED Board	(pcb 2291049600)

IC

15189102	NJM4558DD	Op amp
15189115	TL022CP	Op amp
15219205	MN3007	BBD
15169504	MN3101	BBD driver

TRANSISTOR

15129120	2SC2240-GR	
15129113	2SC1740	
15139101	2SK30A-Y	FET

DIODE

15019107	DS-442	
15019209T0	S-5500G	
15019526	RD5.6EB-3	zener
15029198	LN-28RP	LED

JACK

13669704	HEC-0749-01-010	AC adaptor
13449105	SG-7615	
13449104	SG-7713♯4	

SWITCH

13129710	JM-0404

POTENTIONMETER

13229106	EVH-8MA360B15	10KB	RATE, DEPTH
13229122	EVH-8MA360CF5	250KC	E.LEVEL
13299195	EVN-D4AA00B14	10KB	trimmer

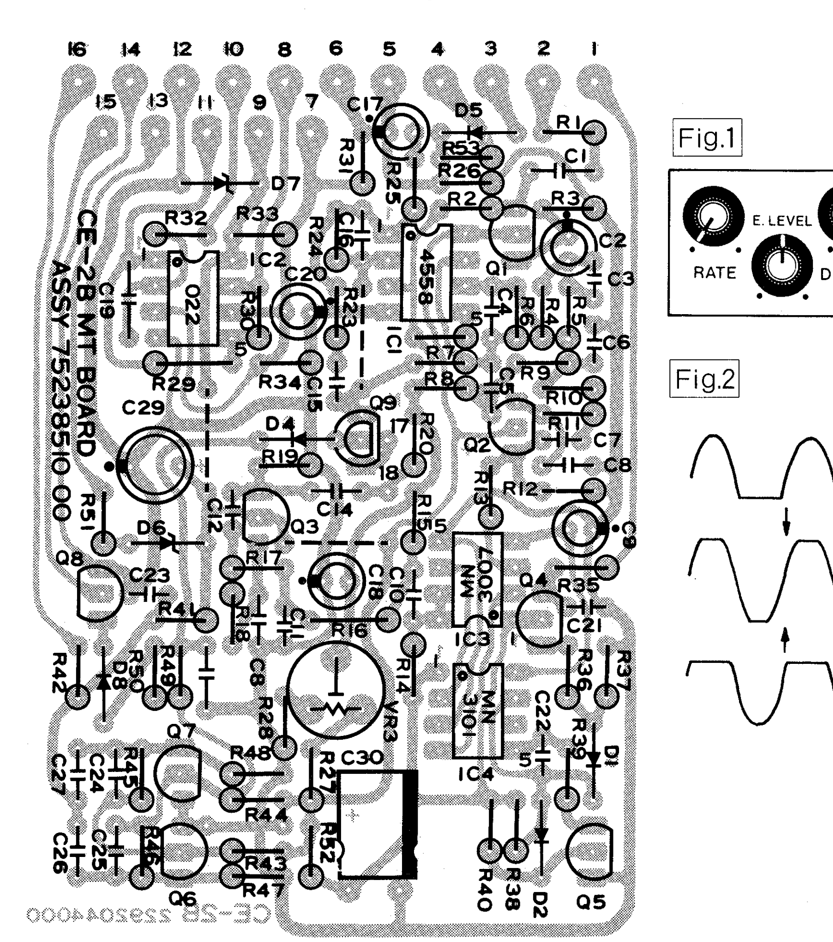
MISCELLANEOUS

2215070201	Guide Bushing	
2226033300	Cushion	
2217010900	Coil Spring	
2341041400	Battery Snap	
2216052900	Plastic Sheet	clear

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

MT BOARD

7523851000 (pcb 2292044000)

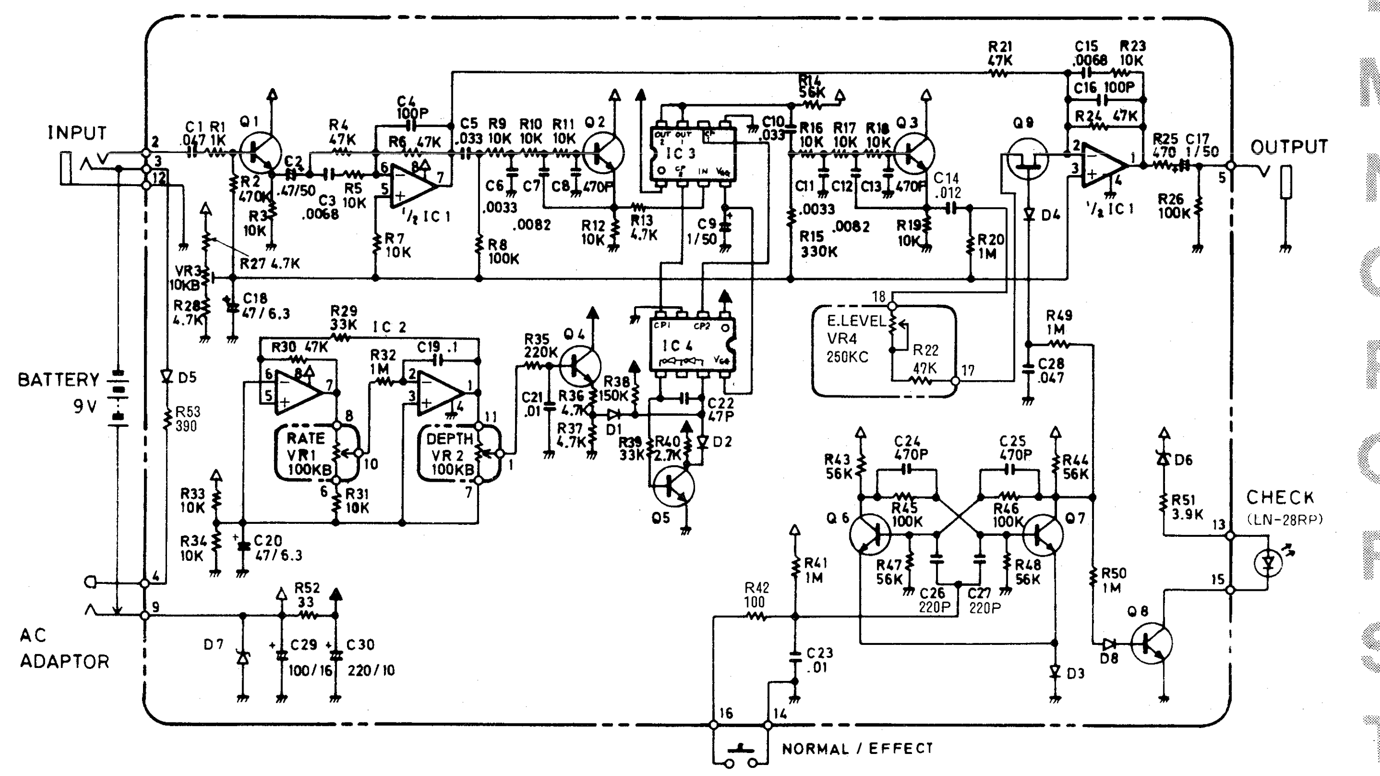


ADJUSTMENT

1. Set controls as shown in Fig.1.
2. Feed a signal 200Hz,+3dBm, sine into INPUT Jack.
3. Cannect an osilloscope to Q3 emitter.
4. Detemine the BBD bias by turning VR-3 to provide a centered operating-point as shown in Fig.2.

調整仕様

1. Fig-1の様にツマミ類をセットする。
2. INPUTに200Hz,+3dBmのサイン波を加える。
3. オシロスコープをQ3のエミッタに接続する。
4. VR-3を調整して波形がFig-2の様に上下対称になる様にする。



IC-1:NJM4558DD
IC-2:TL022CP
IC-3:MN3007(1024stag)
IC-4:MN3101(BBD Driver)
Q1-Q3:2SC2240GR
Q4-Q8:2SC945P
Q9 :2SK30A-Y
D1-D5,D8:1S2473
D6 :RD-5.6EB3
D7 :S5500G

A B C D E F G H I J K L M N O P Q R S T U